

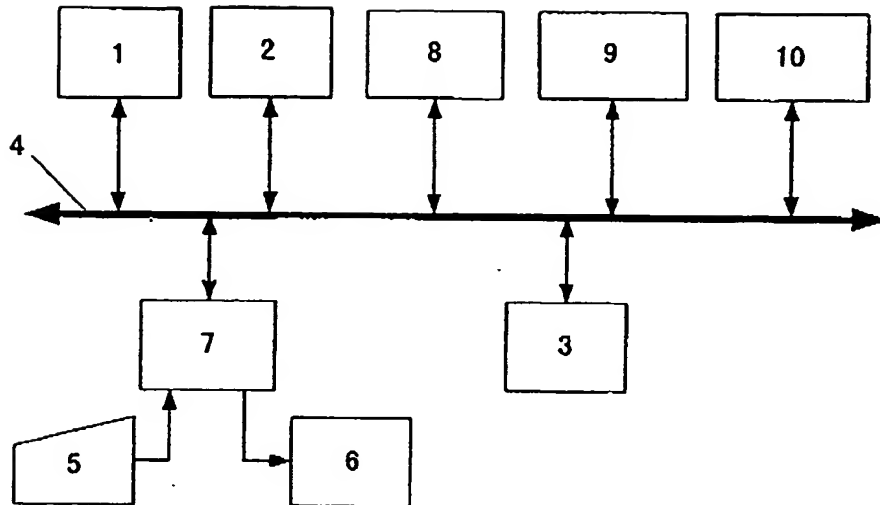
EPO - DG 1

21.02.2005

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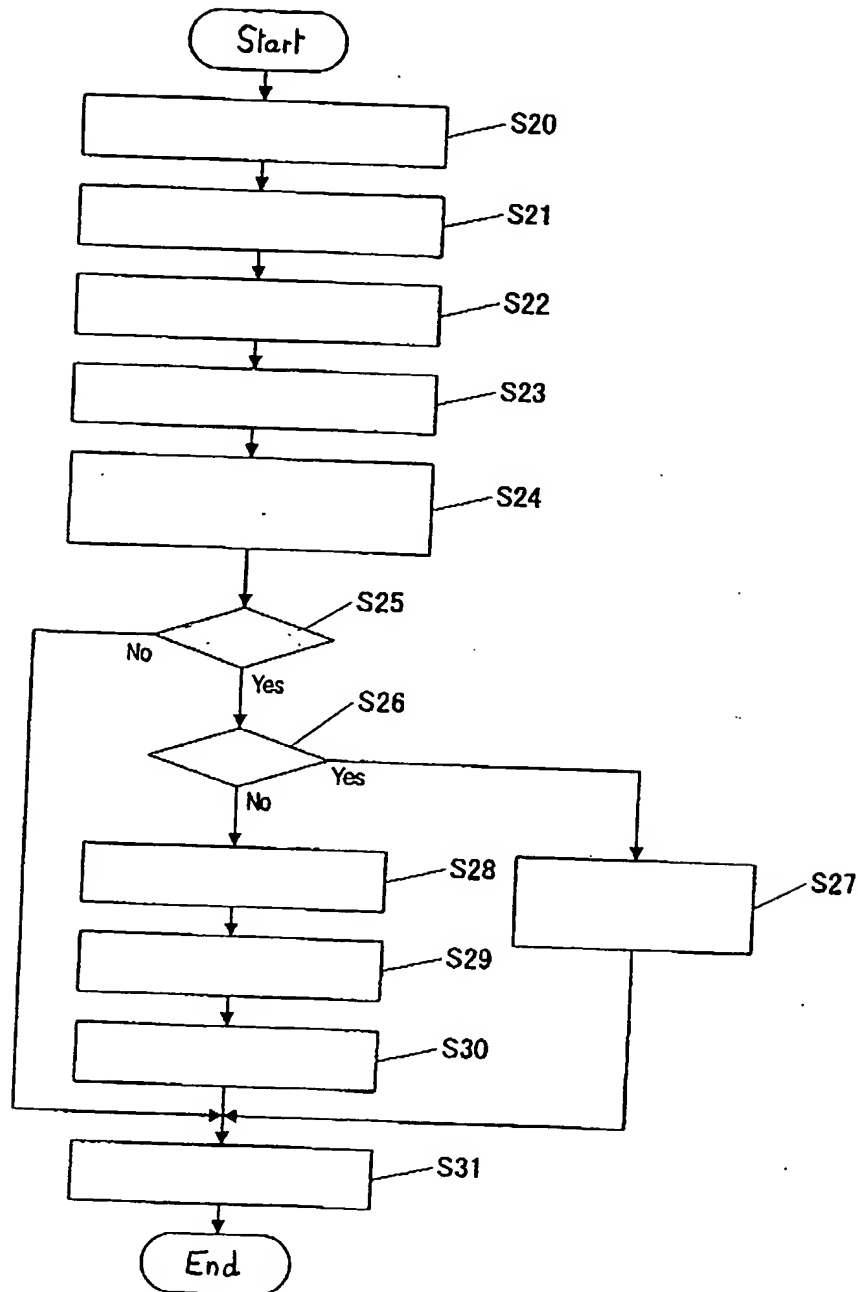
Fig.1

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Fig. 2



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Fig. 3

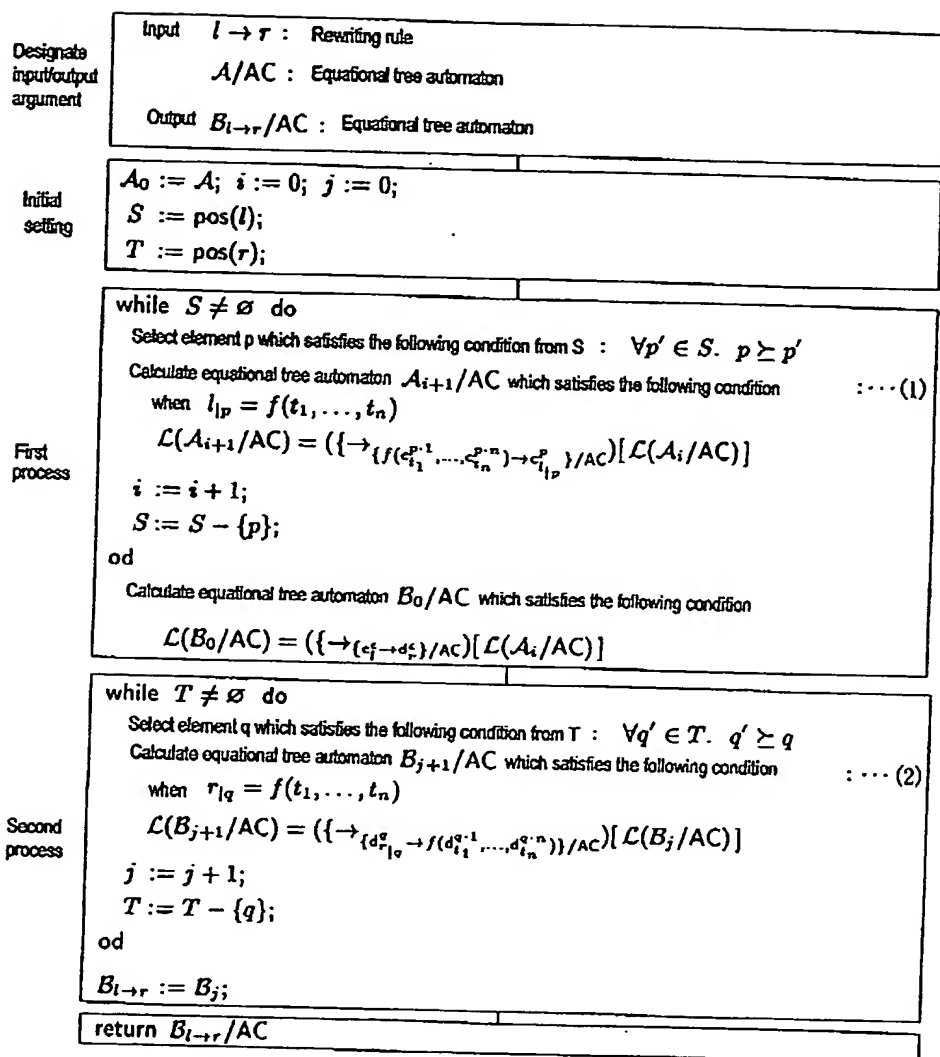
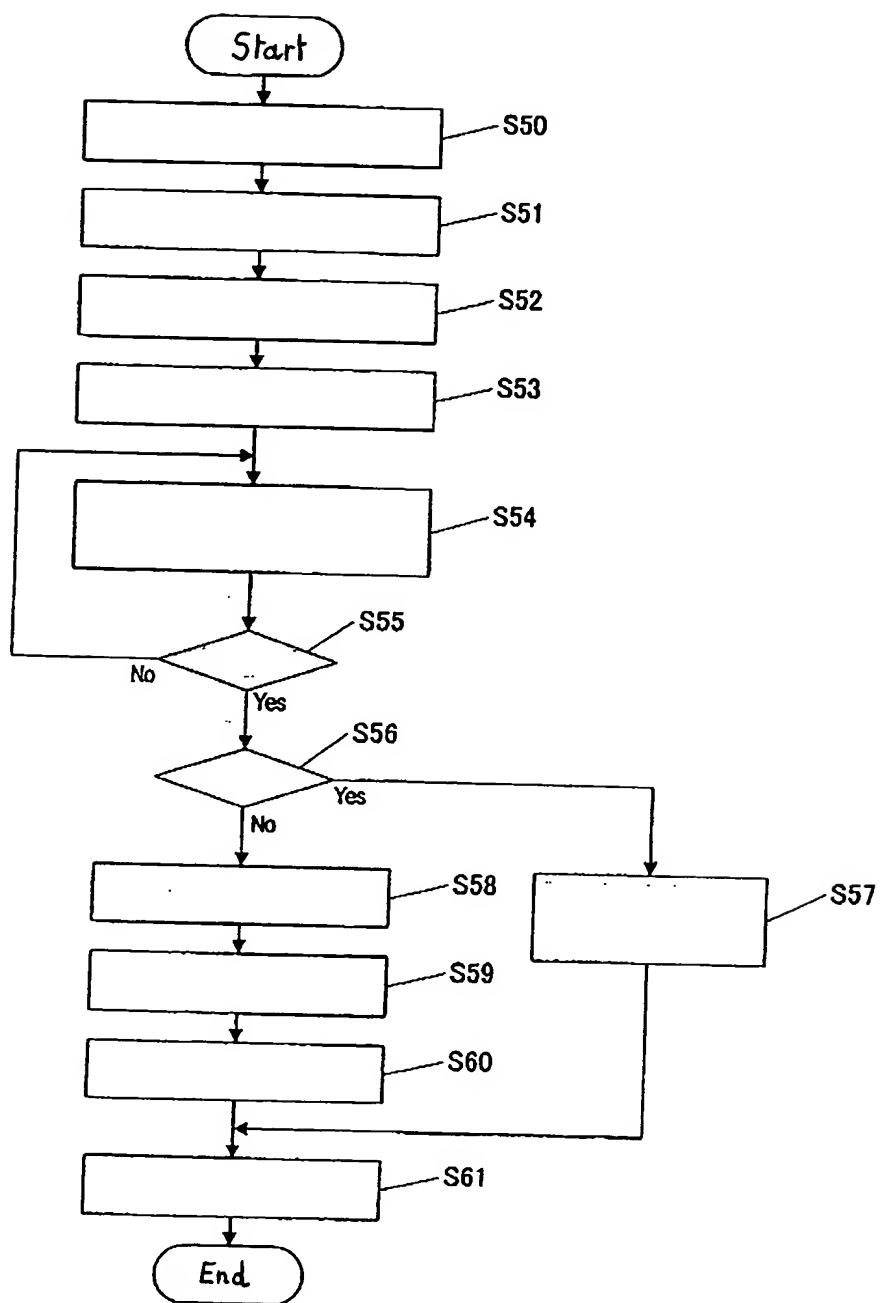


Fig. 4

| Set | Transition rule | Condition |
|-------------------------|--|---|
| \mathcal{R}_x | $f((p_1, q_1), \dots, (p_n, q_n)) \rightarrow (p, q)$ | $\forall f \in \mathcal{F} \setminus \mathcal{G}$ $\forall f(p_1, \dots, p_n) \rightarrow p \in \mathcal{R}_A$ $\forall f(q_1, \dots, q_n) \rightarrow q \in \mathcal{R}_B$ |
| $\mathcal{R}_{\bar{A}}$ | $g((p_1, q_1), (p_2, q_2)) \rightarrow g((p, q_1), q_2)$ $g(p_1, (p_2, q_2)) \rightarrow (p, q_2)$ | $\forall g \in \mathcal{G}$ $\forall q_1, q_2 \in Q_B$ $\forall g(p_1, p_2) \rightarrow p \in \mathcal{R}_A$ |
| | $g((p_1, q_1), (p_2, q_2)) \rightarrow g((r_1, q_1), (r_2, q_2))$ $g(p_1, (p_2, q_2)) \rightarrow g(r_1, (r_2, q_2))$ | $\forall g(p_1, p_2) \rightarrow g(r_1, r_2) \in \mathcal{R}_A$ |
| $\mathcal{R}_{\bar{B}}$ | $g((p_1, q_1), (p_2, q_2)) \rightarrow g((p_1, q), p_2)$ $g(q_1, (p_2, q_2)) \rightarrow (p_2, q)$ | $\forall g \in \mathcal{G}$ $\forall p_1, p_2 \in Q_A$ $\forall g(q_1, q_2) \rightarrow q \in \mathcal{R}_B$ |
| | $g((p_1, q_1), (p_2, q_2)) \rightarrow g((p_1, r_1), (p_2, r_2))$ $g(q_1, (p_2, q_2)) \rightarrow g(r_1, (p_2, r_2))$ | $\forall g(q_1, q_2) \rightarrow g(r_1, r_2) \in \mathcal{R}_B$ |
| \mathcal{R}_G | $g((p, q_1), q_2) \rightarrow g(q_1, (p, q_2))$ $g((p_1, q), p_2) \rightarrow g(p_1, (p_2, q))$ $g(q, p) \rightarrow (p, q)$ | $\forall g \in \mathcal{G}$ $\forall p_1, p_2, p \in Q_A$ $\forall q_1, q_2, q \in Q_B$ |

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Fig.5



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